

known only by its radials and basals, which are different from those of the present specimen. To this *Antedon Picteti*, from the Valangian of the continent, has some resemblance. It is, however, a true *Actinometra*, differing chiefly from existing forms in retaining its primary basals without their having undergone transformation into a rosette.

6. "Descriptive Catalogue of Ammonites from the Sherborne District." By Sydney S. Buckman, Esq. Communicated by Prof. J. Buckman, F.G.S., F.L.S., &c.

In this paper the author gave a list of the Ammonites from the Inferior Oolite of the neighbourhood of Sherborne, in which he enumerated about 47 species, and stated that he had about 50 more which appear to be undescribed; fully one half have the mouth-termination perfectly preserved. The author indicated the zones into which the rocks furnishing these Ammonites could be divided, as shown at Osborne, near Sherborne, at Wyke quarry, and at Bradford Abbas, and indicated the characteristic fossils of each; he also gave the principal synonyms of the species referred to, and discussed some of their characteristic peculiarities.

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#### BIBLIOGRAPHICAL NOTICES.

*Journal and Proceedings of the Royal Society of New South Wales for 1879.* Vol. xiii. 8vo. Sydney, 1880.

ASTRONOMY, Geology, Zoology, Meteorology, and Microscopy supply the chief matter of this vol. xiii. of the 'Journal and Proceedings of the Royal Society of New South Wales.' The Rev. J. E. Tenison-Woods's illustrated Monograph of the Genus *Distichopora*, Dr. Hector's comparison of the geological formations of New Zealand with those of Australia, H. C. Russell's account of the Wentworth hurricane (with a chart), and his description of the "Gem" cluster in Argo, are good examples of Australian scientific work, and, with the other contents of the volume, will be found to be highly useful contributions to science and general knowledge. We must add that the Anniversary Report by the Vice-President, the Hon. Professor Smith, gives a most genial and noteworthy biography of the late Rev. W. B. Clarke, including a careful *résumé* of his geological labours.

*Proceedings of the Bristol Naturalists' Society.* New series, vol. viii. part 1, for 1879. 8vo. Bristol, 1880.

DR. S. P. THOMPSON contributes a most interesting account of some optical illusions, especially as concerns the "strobic circles," with

suggestive explanations as to the causes of these illusions. Dr. Beddoe treats of the Ethnology of the Hindoo-Koosh; H. Charbonnier of specimens of the Pomarine Skua killed in England; A. E. Hudd of the Local Lepidoptera (part 3); W. J. Sollas of the Structure and Life-history of a Sponge (*Sycandra raphanus*); A. Leipner of Proliferation in *Cyclamen persicum*; and C. Bucknell of the Local Fungi (part 3). Thus, touching the highest and the lowest in Biology, the Society fulfils its part in Natural History, supplementing the above with E. Wethered's valuable paper on Underground Temperature and G. F. Burder's Table of the Rainfall at Clifton in 1879.

*Proceedings of the Yorkshire Geological and Polytechnic Society.*

New series, vol. vii. part 3, for 1880. Svo. Leeds, 1881.

EXCEPTING the Marquis of Ripon's Presidential Address on the objects, work, and progress of the Society, and a paper by W. P. Sladen on the Structure of the Asteroidea, with special reference to their ancestral relationship, this part iii. for 1880 is mainly composed of geological notes and memoirs, mostly with local bearings. The Raygill Fissure, the Creswell Caves, the Glacial Deposits near Bridlington and elsewhere, the Geology of Cleveland, the Fault in the Flamborough Chalk, Bones of *Otenodus*, and the Fossil Fishes of the Coal-fields in Yorkshire are here treated of more or less fully.

#### MISCELLANEOUS.

*On some remarkable fossil Fishes from the Devonian Rocks of Scaumenac Bay, in the Province of Quebec.* By J. F. WHITEAVES.

IMMEDIATELY after my paper on the Canadian *Pterichthys*\* was written, Mr. A. H. Foord, of the Geological Survey of Canada, went down to the Baie des Chaleurs, and spent two months and a half of the summer of 1880 in a careful and systematic examination of the fish-bearing beds of the Devonian rocks of the north bank of the mouth of the Restigouche river. The exact locality at which the *Pterichthys canadensis* was found is not the Baie des Chaleurs proper, but Scaumenac (sometimes written Escuminac) Bay, Restigouche Harbour, in the county of Bonaventure. On the shores of this bay a series of shales, sandstones, and conglomerates, now known to be of Devonian age, are overlain, apparently unconformably, by the red sandstones and conglomerates of the "Bonaventure Formation."

From these Devonian rocks Mr. Foord succeeded in obtaining a

\* "On a new Species of *Pterichthys*, allied to *Bothriolepis ornata*, Eichwald," &c., Amer. Journ. Sci. xx. p. 132, August 1880.